| <br> | Claim | _ |
|------|-------|---|
|      |       |   |

| Application/Control No. | Applicant(s)/Patent under Reexamination |  |  |  |  |  |  |  |
|-------------------------|---|--|--|--|--|--|--|--|
| 09/938,221              | KAWANO, SEIICHI                         |  |  |  |  |  |  |  |
| Examiner                | Art Unit                                |  |  |  |  |  |  |  |
| Jimmy T. Vu             | 2821                                    |  |  |  |  |  |  |  |

| , | Rejected | - | - | (Through nu<br>Cancell |
|---|----------|---|---|------------------------|
| = | Allowed  |   | + | Restrict               |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| _ | Interference |

|   | 4 | Appeal   |
|---|---|----------|
| • | כ | Objected |

|          |           | _        |           |        |          |              | J            |  | Ч  | _          |      |              |          |          |               |          | J            | ш        |          |         |             |              | J          | ш                   |          |          |          | _        |                    |          |
|----------|-----------|----------|-----------|--------|----------|--------------|--------------|--|--|------------|------|--------------|----------|----------|---------------|----------|--------------|----------|----------|---------|-------------|--------------|------------|---------------------|----------|----------|----------|----------|--------------------|----------|
| Cla      | aim       |          |           |        |          | Dat          | e            |  |  | Claim Date |      |              |          |          |               |          |              |          |          |         | C           | aim          |            | Date                |          |          |          |          |                    |          |
| Final    | Original  | 6/20/07  |           |        |          |              |              |  |  |            |      | Final        | Original |          |               |          |              |          |          |         |             | Final        | Original   |                     |          |          |          |          |                    |          |
|          | 1         | 1        | Н         |        | $\vdash$ |              | ┢            | $\vdash$   | $\vdash$   | $\vdash$   | ┨    | <u> </u>     | 51       | H        | +             | +-       | ├            | Н        | -        | ╁       | 4           | <del> </del> | 101        | Н                   | ┥        | -        | $\vdash$ | Н        | Н                  | +        |
| -        | 2         | Ì        | Н         |        | $\vdash$ | $\vdash$     | ┢            | <del>                                     </del> | t  | -          | 1    | $\vdash$     | 52       | H        | $\dashv$      | +        | ┢            | H        | ┪        | +       | ╣           | $\vdash$     | 102        | H                   | $\dashv$ |          | -        | Н        | Н                  | +        |
|          | 3         | 1        | П         |        | _        |              | H            |  | 1  | T          | 1    | <u> </u>     | 53       | $\vdash$ | +             | $\top$   | $\vdash$     | Н        | 十        | +       | <b>⊣</b> ∙  | $\vdash$     | 103        | Н                   | $\dashv$ |          |          | Н        | $\vdash$           | 十        |
|          | 4         | 1        |           |        | _        | 1            | $\vdash$     | 1  | 1  |            | 1    | $\vdash$     | 54       | $\Box$   | ┰             | +        | Н            | H        | 寸        | 十       | ヿ゙          | $\vdash$     | 104        | П                   | ᅥ        |          | $\vdash$ | П        | $\vdash$           | $\dashv$ |
|          | 5         | V        | П         |        |          | T            | $\vdash$     | $\vdash$   | $\vdash$   |            | 1    | $\vdash$     | 55       | Ħ        | $\neg$        | T        |              | Н        | 7        | 十       | <b>†</b> ": | <u> </u>     | 105        | Н                   | ┪        |          | _        | $\vdash$ | $\Box$             | 十        |
|          | 6         | 0        | П         |        |          |              |              | T  |  |            | 1    |              | 56       | $\Box$   | $\top$        | T        |              | П        | 寸        | $\top$  | 7           |              | 106        | П                   | ┪        |          |          | П        | $\Box$             | 十        |
|          | 7         |          | П         |        | Г        | Г            |              | П  | П  |            | 1    |              | 57       | $\Box$   | $\neg \vdash$ |          | Π            | П        |          |         | ٦.          |              | 107        |                     |          |          |          |          |                    | 一        |
|          | 8         | Ī.,      |           |        |          |              |              |  |  |            | ] .  |              | 58       |          | $\neg$        |          | Г            |          |          |         | ٦.          |              | 108        |                     |          |          |          | П        | П                  | $\neg$   |
|          | 9         |          |           |        |          |              |              |  |  |            | ]    |              | 59       |          |               |          |              |          |          |         | ]           |              | 109        |                     |          |          |          | П        | П                  | T        |
|          | 10        |          |           |        |          |              |              |  |  |            | ]    |              | 60       |          |               |          |              |          |          |         | ], :        |              | 110        |                     |          |          |          | П        | П                  | T        |
|          | 1         |          |           |        | Ì.       | L            |              | L  |  |            | ]    |              | 61       |          |               |          |              |          |          |         | ]`          |              | 111        |                     |          |          |          |          | П                  | $\Box$   |
|          | 12        |          |           |        |          | _            |              |  |  |            | ]    |              | 62       |          |               | L        |              |          |          |         | ]           |              | 112        |                     |          |          |          |          |                    |          |
| <u></u>  | 13        | L        | Ш         |        | L        | ┖            | <u> </u>     | L  | L  | L.         | ſ    |              | 63       | $\Box$   |               |          |              |          | $\Box$   |         |             |              | 113        |                     |          |          |          |          |                    | I        |
| L        | 14        |          |           |        | _        | <u> </u>     |              | 乚  | L  | ┖          | ]    |              | 64       | Ш        | _ _           | L        |              | Ш        |          |         |             |              | 114        |                     |          |          |          |          |                    |          |
|          | 1\$       |          | Ц         |        | _        | L            | <u> </u>     | L  | L  | _          | ]    |              | 65       | Ш        |               | 丄        | L            |          | $\perp$  |         | _           | L            | 115        | Ш                   |          |          |          |          |                    |          |
|          | 15        |          | Ш         |        | _        | 乚            | L            | L  |  | Ш          | 1    | L            | 66       | Ш        | $\bot$        | 丄        | L            | Ш        | _        | ᆚ       |             |              | 116        | Ш                   | $\perp$  |          |          | Ш        |                    |          |
|          | 107       | <u> </u> | Ш         |        | _        | $oxed{oxed}$ |              | L  | L  | <u> </u>   | ı    |              | 67       |          |               | 上        | $oxed{oxed}$ | Щ        | _        | _       | ॏ .         | <u> </u>     | 117        | Ш                   | _        |          |          | Ш        | Ш                  | $\perp$  |
| L        | 18        | 7        | Ц         |        |          | <u> </u>     | ļ            | <u> </u>   | <u></u>  | _          | 1    |              | 68       |          | ᆚ             | 上        | 匚            | Ш        |          |         |             |              | 118        |                     |          |          |          | Ш        |                    |          |
|          | 19        | 7        | Ш         |        |          | L            | _            | L  | _  | <u> </u>   | 1    | <u> </u>     | 69       |          |               | ┸        | Ш            |          |          | _       | _ : :       |              | 119        | Ш                   |          |          |          |          |                    |          |
|          | 20        | 7        | Щ         |        | _        | <u> </u>     | <u> </u>     | ╙  | _  | L          | 1    |              | 70       | Ц        | _             | 1        |              |          | _        | _       | ۱.          | <u> </u>     | 120        | Ш                   |          |          |          |          | Ц                  | $\perp$  |
|          | <u>C1</u> | 7<       | Ш         |        |          | <u> </u>     | <u> </u>     | <u> </u>   | <u> </u>   | L          |      | <u> </u>     | 71       |          |               | _        | L            | $\sqcup$ | $\perp$  | $\bot$  |             | ·            | 121        | Ш                   |          |          |          | Ш        | Ш                  | $\perp$  |
|          | 22        | 7        | Ш         |        |          | L            | ļ            | _  | _  | _          |      | <u> </u>     | 72       | $\sqcup$ | _             | ↓_       | L.           | Ц        | _        | 1       | _ .         |              | 122        | Ш                   | _        |          |          | Ш        | $\sqcup$           |          |
| <u> </u> | 23        | 7        | Ш         |        |          | ļ            | ┡            | ┡  | ∟  | _          |      | <u> </u>     | 73       | $\perp$  |               | ╄        | L            | Щ        | 4        | 4       | ┵           |              | 123        | Ш                   | _        |          |          | Ш        | Ш                  | 4        |
| $\vdash$ | 24        | 7        |           | _      | <u> </u> | <u> </u>     | ↓_           | ┞  | ╙  | <u> </u>   | 1    | ļ            | 74       |          | $\perp$       | 4        |              |          | 4        | 4       | 4 :         | <u> </u>     | 124        | Ш                   | _        |          |          | Ш        | $\sqcup$           |          |
| <u> </u> | 75<br>76  | 7        |           |        |          | ┞            | ┝            | ├_   | <b> </b> _                                       | _          | ┨.   | <u> </u>     | 75       |          |               | -        |              | $\Box$   | 4        |         | ╝.          | <u> </u>     | 125        | $\sqcup$            | _        | _        |          | Ш        | Ш                  | 4        |
| <u> </u> | 40        | 0        | $\square$ | _      | _        | $\vdash$     | ┝            | -  | -  | <u> </u>   | ł    | <u> </u>     | 76       |          | -             |          | _            | $\sqcup$ |          | 4       | - 27        | <u> </u>     | 126        | $\sqcup$            | _        |          |          | Ш        | $\vdash$           | 4        |
| <u> </u> | 27<br>28  | 0        | $\vdash$  | -      | _        | ├            | ├            | ├-   | <del> </del>                                     | -          | ł    | <u> </u>     | 77       |          | +             | ╁        | $\vdash$     | Н        |          | -       |             |              | 127        | Ш                   | -        | _        |          | Ы        | $\vdash$           | _        |
|          | 29        | 7        | $\vdash$  | -      |          | ├            | ╀            | ⊢  | <del> </del>                                     | -          | 1    |              | 78       |          |               | ╁        | -            | $\dashv$ | $\dashv$ | -       | 4.          | <u> </u>     | 128        | $\vdash$            | 4        | -        |          | Н        | $\vdash$           | -        |
| -        | 30        | 0        | Н         | -      | _        | ⊬            | ├            | ├  | ├  | -          | ł    | <u> </u>     | 79<br>80 | -        |               | ╄        | Н            | Н        | +        | -       | - -         | <u> </u>     | 129        | $\vdash$            | -        |          | _        | Н        | Н                  | +        |
| -        | 31        | 7        | Н         | _      |          | $\vdash$     | -            |  | -  | ├          | ł    | <b></b>      | 81       | -        |               | ┼-       | Н            | -        | $\dashv$ | +       | -{; `       | <u> </u>     | 130        |                     | 4        | $\dashv$ |          | $\vdash$ | $\vdash$           | +        |
| $\vdash$ |           | H        | H         | -      | -        | ╁            | ┢            | $\vdash$   | $\vdash$   | $\vdash$   | ł    | <b></b>      | 82       | -        | +-            | ╫┈       | Н            | -        | +        | +       | ┥           |              | 131<br>132 | ┝╌╢                 | -+       | $\dashv$ | -        | $\dashv$ | $\vdash$           | +        |
| -        |           |          | Н         |        | _        | H            | <del> </del> | -  |  | ┝          | ł    |              | 83       | $\dashv$ | +             | +        | Н            | -        | $\dashv$ | +       | Ⅎ           | <u> </u>     | 133        | ╌┤                  |          | ᅱ        | -        | $\dashv$ | -                  | +        |
|          | 34        | -        | H         |        | _        | H            | Ι            | -  | _  | $\vdash$   | ł    |              | 84       | +        | +             | ╁        | Н            | H        | -        | ╁       | <b>-</b> ∤: | <del> </del> | 134        | H                   | $\dashv$ |          |          | Н        | $\vdash$           | +        |
|          | 35        |          | $\vdash$  | -      |          | Н            | 1            | $\vdash$   | $\vdash$   | $\vdash$   | 1    | <del> </del> | 85       | -        | +             | +        | H            | $\dashv$ | $\dashv$ | ╅       | 4           | <b></b>      | 135        | ${oldsymbol{dash}}$ | $\dashv$ |          | $\dashv$ |          | $\vdash$           | +        |
|          | 36        |          | $\vdash$  |        | _        | $\vdash$     | ┢            | <del>                                     </del> | $\vdash$   | $\vdash$   | ١.   |              | 86       | +        | +             | +        | H            | $\dashv$ | 十        | +       | 1           | $\vdash$     | 136        | $\vdash$            |          | $\dashv$ | $\dashv$ | Н        | $\dashv$           | $\dashv$ |
|          | 37        |          | Н         |        |          |              | Т            | $\vdash$   | <del>                                     </del> | $\vdash$   | ۱ ٔ  |              | 87       | $\dashv$ | 十             | +        | H            | $\vdash$ | $\dashv$ | +       | ┨.          | $\vdash$     | 137        | $\vdash \vdash$     | -        | $\dashv$ | $\dashv$ | $\vdash$ | $\dashv$           | $\dashv$ |
|          | 38        |          | Н         |        | _        |              | Т            | H  | $\vdash$   | $\vdash$   | 1    |              | 88       | _        |               | ╁        | Н            | $\dashv$ | 十        | +       | ٦.          | $\vdash$     | 138        | $\vdash$            | -        | -        | $\dashv$ | $\dashv$ | $\dashv$           | +        |
|          | 39        | _        | Н         |        |          |              | $\vdash$     | Т  | T  | _          | i    |              | 89       | -+       | $\dashv$      | +        | Н            | $\dashv$ | 十        | $\top$  | 1           | <u> </u>     | 139        | $\vdash$            | +        | $\dashv$ | $\dashv$ |          | $\dashv$           | +        |
|          | 40        |          | П         |        |          | Ι-           | Г            | Г  |  | $\vdash$   |      |              | 90       | $\dashv$ | +             | T        | Н            |          | -        | +       | 1           |              | 140        | $\vdash$            | +        | ᅱ        | $\neg$   |          | $\dashv$           | +        |
|          | 41        |          | П         |        |          |              |              | T  | Ι  |            | ı    |              | 91       | $\dashv$ | $\top$        | $\top$   | П            |          | $\dashv$ | 十       | <b>-</b>    | <u> </u>     | 141        | Н                   | $\dashv$ | $\dashv$ | $\neg$   | $\dashv$ | $\sqcap^{\dagger}$ | 十        |
|          | 42        |          | П         | $\neg$ |          | $\Box$       | $\vdash$     | Г  | Γ  | Г          | l    |              | 92       | $\neg$   | -1-           | T        | П            |          | $\dashv$ | +       |             |              | 142        | $\Box$              | 7        | 一        | _        | $\dashv$ | $\dashv$           | +        |
|          | 43        |          |           |        |          |              |              |  |  |            | 1    |              | 93       |          |               |          | П            |          | $\top$   | 1       | 13/4        |              | 143        | $\vdash$            | 寸        | $\dashv$ | $\dashv$ | $\dashv$ | $\neg$             | +        |
|          | 44        |          |           |        |          |              |              |  |  |            | · `; |              | 94       |          | $\neg$        | 1        | П            | 寸        | _        | 7       | <b>-</b>  : |              | 144        | $\sqcap$            | 7        |          |          |          | $\neg$             | $\dashv$ |
|          | 45        |          |           |        |          |              |              |  |  |            | ]    |              | 95       |          |               |          |              |          |          | 1       | ]           |              | 145        | $\sqcap$            | 7        | 寸        | $\neg$   |          | $\dashv$           | 十        |
|          | 46        |          |           |        |          |              |              |  |  |            |      |              | 96       |          |               | $\Gamma$ |              |          | $\Box$   | T       | ],          |              | 146        |                     | $\neg$   |          |          |          | $\neg$             | 丁        |
|          | 47        |          |           |        |          |              |              |  |  |            | ľ    |              | 97       | $\Box$   |               |          |              |          |          | I       | ]           |              | 147        |                     |          | 丁        | 一        | ╗        |                    |          |
|          | 48        |          | Ц         | _]     | _        | $oxed{\Box}$ | L            |  |  |            |      |              | 98       | $\Box$   |               |          |              |          | $\Box$   | I       | ] -         |              | 148        |                     |          |          |          | 二        |                    | I        |
| $\perp$  | 49        | Ш        | Ц         | _      |          | $\sqcup$     | L_           | Ш  | Ш  |            |      |              | 99       | $\bot$   |               |          | Ш            |          |          | $\perp$ | ]:          |              | 149        | $\Box$              | $\Box$   | $\Box$   | $\Box$   | $\Box$   | $\Box$             | $\Box$   |
| l        | 50        |          | I         | - 1    | ĺ        | l Ì          |              | l  |  |            |      | 1 7          | 100      | T        | - [           | 1        |              | T        | T        | Г       | 1.          | 1            | 150        | 7                   | Т        | Т        | 7        | ▔        | Т                  | Т        |